

Please amend page 20, line 1 as follows:

Claims What is claimed is:

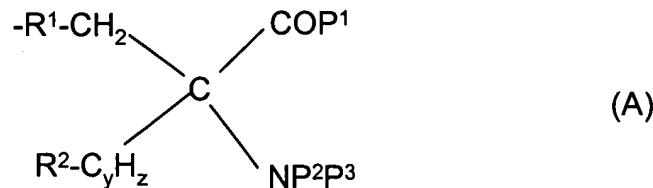
This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

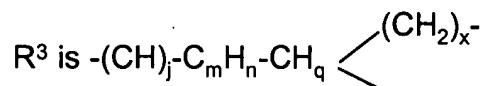
1. (Original) A process for the production of an ^{18}F -labelled tracer which comprises treatment of a solid support-bound precursor of formula (I):

SOLID SUPPORT-LINKER-SO₂-O -TRACER (I)

wherein the TRACER is of formula (A):

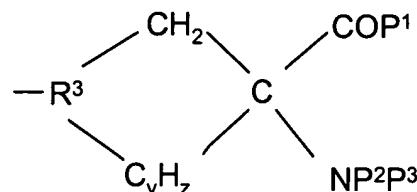


wherein P¹ is hydroxy or a protecting group, P² and P³ are independently hydrogen or a protecting group, R¹ is a bond, -CH=CH-, or together with R² forms R³;



R² is hydrogen or together with R¹ forms R³;

such that



is formed

wherein x is 0 or 1;

y is 1 or 2;

z is 1, 2, 3, or 4 and z>y if y is 2;

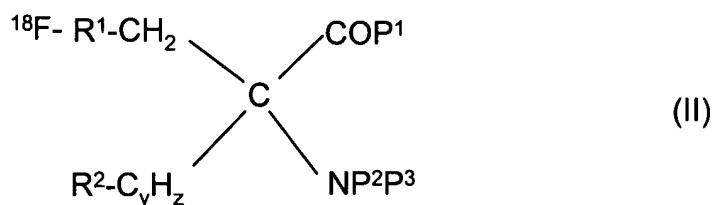
q is 1 or 0 if n is 1 and j is 0;

n is 1 or 2, but 0 if m is 0;

m is 0 or 1; and

j is 0 or 1;

with $^{18}\text{F}^-$ to produce the labelled tracer of formula (II)



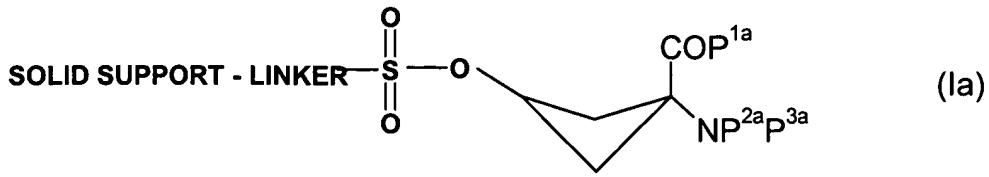
wherein R^1 , R^2 , y , z , P^1 , P^2 and P^3 are as defined for the compound of formula (I), optionally followed by

- (i) removal of excess $^{18}\text{F}^-$, for example by ion-exchange chromatography; and/or
- (ii) removal of any protecting groups; and/or
- (iii) removal of organic solvent; and/or
- (iv) formulation of the resultant compound of formula (II) as an aqueous solution

2. (Original) A process for the production of an ^{18}F -labelled tracer according to claim 1 wherein R^1 and R^2 form the group R^3 .

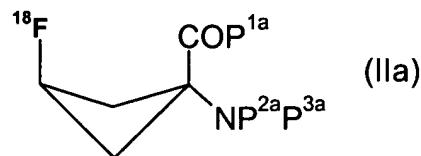
3. (Currently amended) A process for the production of an ^{18}F -labelled tracer according to claim 1 or 2 wherein R^1 and R^2 form the group R^3 and x is 0, y is 1, z is 2, q is 1, m is 0 and j is 0.

4. (currently amended) A process according to ~~any one of claims 1 to 3~~ claim 1 for the production of $[^{18}\text{F}]\text{-1-amino-3-fluorocyclobutane-1-carboxylic acid}$ ($[^{18}\text{F}]\text{-FACBC}$) which comprises treatment of a solid support-bound precursor of formula (Ia):



wherein P^{2a} and P^{3a} are each independently hydrogen or a protecting group, and P^{1a} is hydroxyl or a carboxylic acid protecting group;

with $^{18}\text{F}^-$ to produce the labelled tracer of formula (IIa)

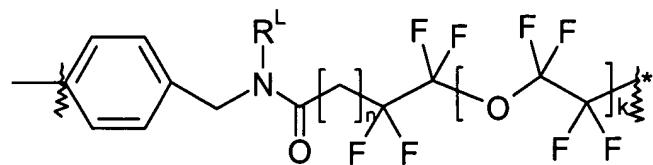


wherein P^{1a} , P^{2a} , and P^{3a} are each as defined in Formula (Ia);

optionally followed by

- (i) removal of excess $^{18}\text{F}^-$, for example by ion-exchange chromatography; and/or
- (ii) removal of the protecting groups; and/or
- (iii) removal of organic solvent; and/or
- (iv) formulation of the resultant compound of formula (IIa) as an aqueous solution.

5. (Original) A process according to claim 4 wherein the LINKER in the compound of formula (Ia) is



wherein k is an integer of 0 to 3, n is an integer of 1 to 16, and R^L is hydrogen or C_{1-6} alkyl.

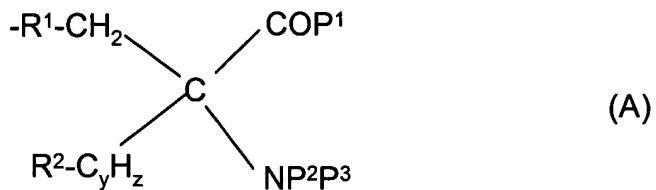
6. (Currently amended) A process according to claim 4 or 5 in which P^{1a} is C_{1-6} alkoxy, P^{2a} is hydrogen or C_{1-6} alkoxycarbonyl, and P^{3a} is C_{1-6} alkoxycarbonyl.

7. A process for the production of a ^{18}F -labelled tracer of formula (II) or (IIa), according to ~~any one of claims 1 to 6~~ claim 1, for use in PET.

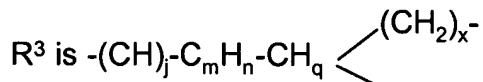
8. (Original) A compound of formula (I)

SOLID SUPPORT-LINKER-SO₂-O -TRACER (I)

wherein the TRACER is of formula (A):

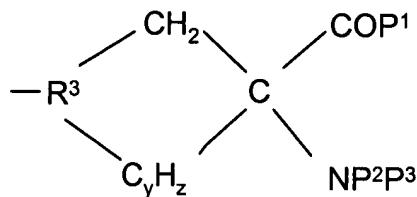


wherein P¹ is hydroxy or a protecting group, P² and P³ are independently hydrogen or a protecting group, R¹ is a bond, -CH=CH-, or together with R² forms R³;



R² is hydrogen or together with R¹ forms R³;

such that



is formed

wherein x is 0 or 1;

y is 1 or 2;

z is 1, 2, 3, or 4 and z>y if y is 2;

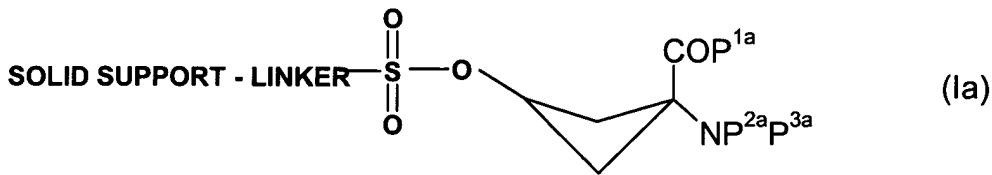
q is 1 or 0 if n is 1 and j is 0;

n is 1 or 2, but 0 if m is 0;

m is 0 or 1; and

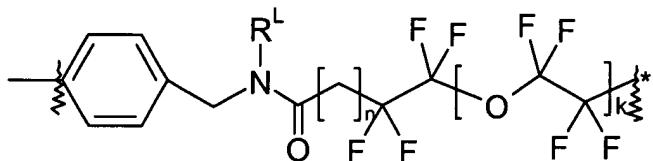
j is 0 or 1.

9. (Original) A compound of formula (Ia):



wherein P^{2a} and P^{3a} are each independently hydrogen or a protecting group, and P^{1a} is hydroxyl or a protecting group.

10. (Currently amended) A compound according to claim 8 or 9 in which the LINKER is



wherein k is an integer of 0 to 3, n is an integer of 1 to 16, and R^L is hydrogen or C_{1-6} alkyl.

11. (Currently amended) A compound according to ~~any one of claims 8 to 10~~ claim 8, in which P^{1a} is C_{1-6} alkoxy, P^{2a} is hydrogen or C_{1-6} alkoxycarbonyl, and P^{3a} is C_{1-6} alkoxycarbonyl.

12. (Currently amended) A radiopharmaceutical kit for the preparation of an ^{18}F -labelled tracer for use in PET, which comprises:

- a vessel containing a compound of formula (I) or (Ia) as defined in ~~any one of claims 1 to 6~~ claim 1; and
- means for eluting the vessel with a source of $^{18}F^-$;
- an ion-exchange cartridge for removal of excess $^{18}F^-$; and optionally
- a cartridge for solid-phase deprotection of the resultant product of formula (II) or (IIa) as defined in ~~any one of claims 1 to 6~~ claim 1.

13. (Currently amended) A cartridge for a radiopharmaceutical kit for the preparation of an ^{18}F -labelled tracer for use in PET which comprises:

- (i) a vessel containing a compound of formula (I) or (Ia) as defined in ~~any one of claims 1 to 6~~ claim 1; and
- (ii) means for eluting the vessel with a source of $^{18}\text{F}^-$.

14. (Currently amended) A method for obtaining a diagnostic PET image which comprises the step of using a radiopharmaceutical kit according to claim 12 ~~or a cartridge for a radiopharmaceutical kit according to claim 13~~.

15. (New) A method for obtaining a diagnostic PET image which comprises the step of using a cartridge for a radiopharmaceutical kit according to claim 13.